# Fall 2012 Levee Maintenance Deficiency Summary Report Overall LMA & Unit Ratings, including USACE Erosion Survey

### Sacramento River Basin

MA0007 Sutter Maintenance Yard Maintenance	Overall LMA Rating	Total LMA Miles							
Area 0007	A	12.07							
Rated Item	Maintenance Deficiancy					Enforcement		Design & System Obsolescence	
Rateu Item	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles	
Earthen Levee									
Vegetation					0.07				
Encroachments					3.88	0.03			
Slope Stability	0.36		0.36	2.98%					
Supplemental									
USACE Erosion Survey	0.02		0.02	0.17%					
LMA Totals:	0.38	0.00	0.38	3.15%	3.95	0.03	0.00	0.00	

# **LMA District Cover Sheet**

### Fall 2012 Levee Inspection Results

# **Sutter Maintenance Yard Maintenance Area 0007**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)		
* Overall LMA Rating (Fall Only)			A			
	** Non-receipt of Su	ımmer or Winter Inspe	ection Reports may effec	ct overall annual rating		
* SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.  FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.						
Comments						

### **Unit Cover Sheet**

### Fall 2012 Levee Inspection Results

### **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles
Unit No. 01 Feather River	Right	12.07

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	03/28/2012 - 03/28/2012		09/25/2012 - 09/25/2012	
DWR Inspector	Clay Thomas		Clay Thomas	
Accompanied By	Jason Cooper		Jason Cooper	

#### Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

#### http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

### Levee Inspection Report By Mile - Fall 2012

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	09/25/2012 09/25/2012	Clay Thomas

LMR No.	Levee		Category	Item	Location	Rating	Action/Comment		de/Longitude	Issue No.
1	Start	End	Earthen Levee	Operations & Maintenance Manuals	WS			Start  Output  DWR ID: DWR_M	end °	4
2			Earthen Levee	Emergency Supplies & Equipment	WS	A Ma		o o DWR ID: DWR M	o o IA0007_01_s _ 2012	
3			Earthen Levee	Flood Preparedness & Training	WS	A Ma		o o DWR ID: DWR M	o o IA0007_01_s _ 2012	
4	0.00	12.05	Earthen Levee	Vegetation	LS	A Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.311340 ° -121.637495 °	39.439666 °	1 Y
5	0.00	12.05	Earthen Levee	Vegetation	WS	A Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.	39.311340 ° -121.637495 ° DWR ID: DWR_M	39.439665 ° -121.641691 ° IA0007_01_f _ 2012	Υ
6	0.01	1.73	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.311297 ° -121.637490 ° DWR ID: DWR_M	39.334365 ° -121.633975 ° IA0007_01_s _ 2012	Υ
7	1.21	1.21	Earthen Levee	Encroachments	WS	U En	BU : Building	39.327187 ° -121.632395 ° DWR ID: DWR_M	39.327187 ° -121.632395 ° <sup>IA0007</sup> _01_s _ 2012	Υ
8	1.55	1.55	Supplemental	USACE Erosion Survey	WS	M Ma	Inspector Comments: 2011 - The toe of the levee has been excavated by the land owner. Small holes throughout the site have been filled with a plaster like substance. Large canal on landside slope and over the levee toe. 2012: Site is part of the extended inventory, last inspected 2011. [2012 Site ID: FHR_47-5_R]	39.334240 ° -121.633908 °	39.332000 ° -121.633178 °	
9	2.88	2.88	Earthen Levee	Encroachments	LS	M En	PI : Pipe Inspector Comments: 24 inch pipe L/S toe parallel with levee.	39.349857 ° -121.630632 °		Y
10	3.85	5.37	Earthen Levee	Encroachments	LS	M En	DT : Ditch	39.359942 ° -121.640780 °	39.379262 ° -121.650698 ° IA0007_01_s _ 2012	39 Y
11	4.29	4.29	Earthen Levee	Encroachments	LS	M En	CR : Crops	39.364815 ° -121.646005 °	39.364815 °	389
12	4.37	4.37	Supplemental	USACE Erosion Survey		M Ma	Inspector Comments: 2012: Oversteepened slope with failing rock (from repair completed in 1954). Likely slope stability issues. [2012 Site ID: FHR_50-9_R]	39.367612 ° -121.647866 ° DWR ID:		
13	5.37	5.37	Earthen Levee	Vegetation	LS	M En	V6 : Landscaping	39.379487 ° -121.650604 ° DWR ID: DWR_N	39.379487 ° -121.650604 ° <sup>1A0007</sup> _01_s _ 2012	

\* Location

LS: Land Side

WS: Water Side

CR: Crown

\* Rating

A : Acceptable

M : Minimally Acceptable

U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type Ma : Mainter

### Levee Inspection Report By Mile - Fall 2012

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	09/25/2012 09/25/2012	Clay Thomas

							09/23/2012   THOMAS
LMR No.	Levee	e Mile End	Category	Item	** + Location	Action/Comment	GPS Latitude/Longitude Issue No. Start End Photo
14	5.38	5.98	Earthen Levee	Encroachments	WS M En	AT: Agricultural tilling Inspector Comments: This site is property of Cilker Revocable Trust, it has an encroachment violation notic dated 7-23-2012, enforcement action: 2011-321. The stockpile has been removed, excavation at the levee to is still present.	
15	5.41	5.41	Earthen Levee	Encroachments	WS M	TA : Tank	39.380153 ° 39.380153 ° 9 -121.650447 ° -121.650447 ° DWR ID: DWR_MA0007_01_s _2012_9
16	5.42	5.42	Earthen Levee	Encroachments	LS U En	BU : Building	39.379947 ° 39.379947 ° 32 -121.650525 ° -121.650525 ° Y DWR ID: DWR_MA0007_01_s _2012_32
17	6.62	6.62	Earthen Levee	Erosion / Bank Caving	LS C	E1 : Note and monitor erosion site.	39.386378 ° 39.386378 ° 18 -121.632572 ° -121.632572 ° DWR ID: DWR_MA0007_01_s _ 2012_18
18	9.05	9.41	Earthen Levee	Slope Stability	LS M	S1 : Repair slope instability. Inspector Comments: this appears to be cut into the lev	39.409363 ° 39.412797 ° 7 ee121.634667 ° -121.632463 ° DWR ID: DWR_MA0007_01_s _2012_7
19	9.79	9.79	Earthen Levee	Encroachments	LS U	BU : Building	39.416384 ° 39.416384 ° 45 -121.634503 ° -121.634503 ° Y DWR ID: DWR_MA0007_01_s_2012_45
20	9.84	9.84	Earthen Levee	Encroachments	LS M En	EQ : Equipment	39.416921 ° 39.416921 ° 12 -121.634802 ° -121.634802 ° DWR ID: DWR_MA0007_01_s _2012_12
21	11.63	11.69	Earthen Levee	Vegetation	LS M En	V6 : Landscaping	39.437119 ° 39.437949 ° 43 -121.645860 ° -121.646280 ° Y DWR ID: DWR_MA0007_01_s _2012_43

\* Location

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+ Issue Type
Ma Mainter

### Levee Inspection Report By Mile - Fall 2012

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	09/25/2012 09/25/2012	Clay Thomas

Levee Mile Report Line	4				
Start Levee Mile	0.00				
End Levee Mile	12.05				
Location	Land Side				
Category	Earthen Levee				
Item	Vegetation				
This photo is of the landside slope at levee mile 12.07.					

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Levee Mile Report Line	5
Start Levee Mile	0.00
End Levee Mile	12.05
Location	Water Side
Category	Earthen Levee
Item	Vegetation

This photo is of the waterside slope at levee mile 12.07.

cathom\_f\_20121005\_208.JPG

Levee Mile Report Line	6				
Start Levee Mile	0.01				
End Levee Mile	1.73				
Location	Land Side				
Category	Earthen Levee				
Item	Encroachments				
AG ditch landside slope and toe.					

cathom\_f\_20120912\_013.jpg







\* Location

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+ Issue Type

### Levee Inspection Report By Mile - Fall 2012

## **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	09/25/2012 09/25/2012	Clay Thomas

Levee Mile Report Line	7
Start Levee Mile	1.21
End Levee Mile	1.21
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Lovoo milo 1 21. This is	a photo of the building

Levee mile 1.21. This is a photo of the building on the waterside slope.

cathom\_f\_20120912\_010.jpg

Levee Mile Report Line	9
Start Levee Mile	2.88
End Levee Mile	2.88
Location	Land Side
Category	Earthen Levee
Item	Encroachments

This photo shows a pipe approximately 24 inch in diameter at the landside toe of the levee, the pipe runs parallel with the levee, they are repairing the existing pipe.

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Levee Mile Report Line	9
Start Levee Mile	2.88
End Levee Mile	2.88
Location	Land Side
Category	Earthen Levee
Item	Encroachments

This is looking from the crown of the levee at the pipe repair site. Status of a permit is unknown and no verification of the repair was available.

cathom\_f\_20120912\_017.jpg







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### Levee Inspection Report By Mile - Fall 2012

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	09/25/2012 09/25/2012	Clay Thomas

Levee Mile Report Line	10		
Start Levee Mile	3.85		
End Levee Mile	5.37		
Location	Land Side		
Category	Earthen Levee		
Item	Encroachments		
Levee mile 5.37. This is a photo of the Ag ditch on the landside slope and toe.			

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Levee Mile Report Line	10		
Start Levee Mile	3.85		
End Levee Mile	5.37		
Location	Land Side		
Category	Earthen Levee		
Item	Encroachments		
Ag ditch landside slope and toe.			

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Levee Mile Report Line	12
Start Levee Mile	4.37
End Levee Mile	4.37
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #1	

USACE2012\_FHR\_50-9\_R\_1.jpg







Location LS: Land Side WS : Water Side CR : Crown Rating

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M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

### Levee Inspection Report By Mile - Fall 2012

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	09/25/2012 09/25/2012	Clay Thomas

Levee Mile Report Line	12
Start Levee Mile	4.37
End Levee Mile	4.37
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2012 Photo #2	
USACE2012_FHR_50-9_R_2.jpg	1

12
4.37
4.37
Water Side
Supplemental
USACE Erosion Survey

USACE 2012 Photo #3

USACE2012\_FHR\_50-9\_R\_3.jpg

Levee Mile Report Line	14
Start Levee Mile	5.38
End Levee Mile	5.98
Location	Water Side
Category	Earthen Levee
Item	Encroachments

This photo is of the wateside toe of the levee, it does not appear to have been repaired.

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Location LS: Land Side WS : Water Side CR : Crown

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+ Issue Type

### Levee Inspection Report By Mile - Fall 2012

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	09/25/2012 09/25/2012	Clay Thomas

Levee Mile Report Line	14	
Start Levee Mile	5.38	
End Levee Mile	5.98	
Location	Water Side	
Category	Earthen Levee	
Item	Encroachments	
This photo shows where material has been		

remove at the waterside toe of the levee.

cathom\_f\_20121102\_212.JPG

Levee Mile Report Line	14
Start Levee Mile	5.38
End Levee Mile	5.98
Location	Water Side
Category	Earthen Levee
Item	Encroachments

This photo shows vehicle traffic has cut into the toe of the levee.

cathom\_f\_20121102\_213.JPG

Levee Mile Report Line	14
Start Levee Mile	5.38
End Levee Mile	5.98
Location	Water Side
Category	Earthen Levee
Item	Encroachments
This photo shows the stockpile has been	

removed.

cathom\_f\_20121102\_216.JPG







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+ Issue Type

### Levee Inspection Report By Mile - Fall 2012

# **Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	12.07	09/25/2012 09/25/2012	Clay Thomas

Levee Mile Report Line	16	
Start Levee Mile	5.42	
End Levee Mile	5.42	
Location	Land Side	
Category	Earthen Levee	
Item	Encroachments	
Levee mile 5.42. This photo shows a building on the landside crown, shoulder and slope.		

cathom\_f\_20120912\_009.jpg

Levee Mile Report Line	19
Start Levee Mile	9.79
End Levee Mile	9.79
Location	Land Side
Category	Earthen Levee
Item	Encroachments
Leves mile 9.79. This photo shows a building at	

Levee mile 9.79. This photo shows a building at the landside toe.

cathom\_f\_20120912\_015.jpg

Levee Mile Report Line	21
Start Levee Mile	11.63
End Levee Mile	11.69
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landside landscaping le	vee mile 11.63.







\* Location

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CR: Crown

cathom\_f\_20120912\_014.jpg

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+ Issue Type
Ma : Mainte